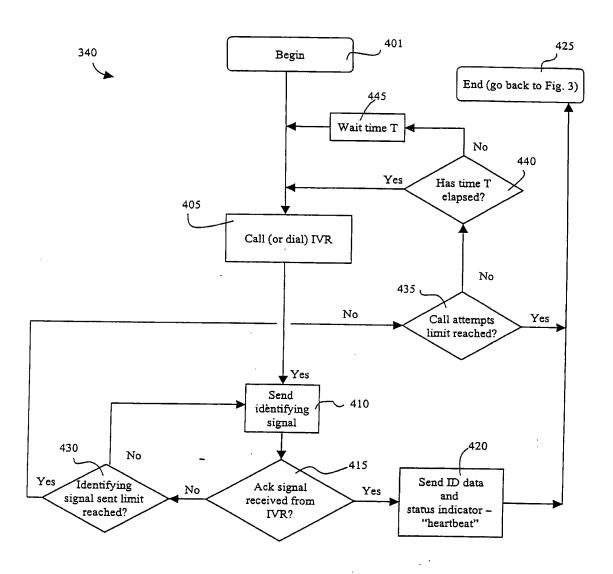


Figure 2: Hardware Block Diagram

301 Begin (User has plugged PSND into wall outlet and telephone jack). 305 Wait for PSND to power up; 310 Call power company VRU/IVR No 330 Call attempt Yes limit reached? 315 Send identifying signal Nο 325 320-Received Identifying Yes Ack from signal sent limit IVR? reached? Yes Send ID Data and status indicator -340 Has Yes Heartbeat "heartbeat time Routine elapsed? No Power Status Change Routine

Figure 3: Initialization Routine

Figure 4: Heartbeat Routine



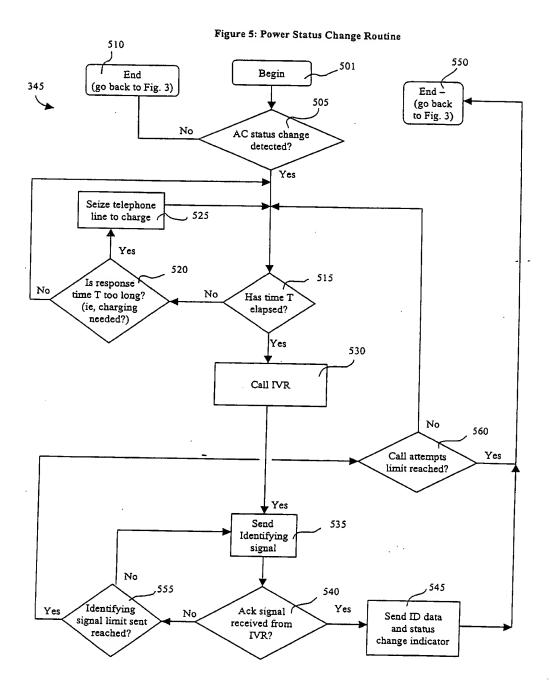


Figure 6: IVR Flowchart

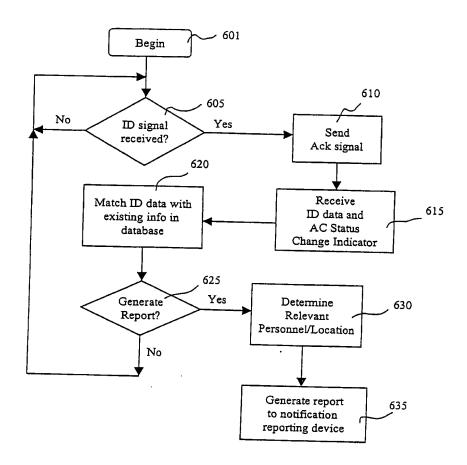


Figure 7: PSND Programmer Interface

